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(54) Title: **CATHODE COMPOSITIONS AND METHOD FOR LITHIUM-ION CELL CONSTRUCTION HAVING A LITHIUM COMPOUND ADDITIVE, ELIMINATING IRREVERSIBLE CAPACITY LOSS.**

(57) Abstract: **Cathode compositions for use in lithium-ion cells and other metal-ion cells, which have a lithium compound or other metal compound additives, matching the selected chemistry of the cell, which additives eliminate irreversible capacity loss.**